

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/561,144
Source: IFwP
Date Processed by STIC: 12/30/05

ENTERED



IFWP

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/561,144

DATE: 12/30/2005

TIME: 09:39:19

Input Set : A:\1431sequence_listing.txt
 Output Set: N:\CRF4\12302005\J561144.raw

3 <110> APPLICANT: TAKEDA CHEMICAL INDUSTRIES, LTD.
 4 SHIMOMURA, Iichirou
 6 <120> TITLE OF INVENTION: Novel Protein
 8 <130> FILE REFERENCE: 09653
 C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/561,144
 C--> 10 <141> CURRENT FILING DATE: 2005-12-16
 10 <150> PRIOR APPLICATION NUMBER: JP 2003-171188
 11 <151> PRIOR FILING DATE: 2003-06-16
 13 <150> PRIOR APPLICATION NUMBER: JP 2003-391047
 14 <151> PRIOR FILING DATE: 2003-11-20
 16 <150> PRIOR APPLICATION NUMBER: JP 2004-23557
 17 <151> PRIOR FILING DATE: 2004-01-30
 19 <150> PRIOR APPLICATION NUMBER: JP 2004-30988
 20 <151> PRIOR FILING DATE: 2004-02-06
 22 <160> NUMBER OF SEQ ID NOS: 25
 24 <170> SOFTWARE: PatentIn version 3.2
 26 <210> SEQ ID NO: 1
 27 <211> LENGTH: 402
 28 <212> TYPE: DNA
 29 <213> ORGANISM: Homo sapiens
 32 <220> FEATURE:
 33 <221> NAME/KEY: CDS
 34 <222> LOCATION: (1)..(399)
 36 <220> FEATURE:
 37 <221> NAME/KEY: sig_peptide
 38 <222> LOCATION: (1)..(87)
 40 <220> FEATURE:
 41 <221> NAME/KEY: mat_peptide
 42 <222> LOCATION: (88)..(399)
 44 <400> SEQUENCE: 1
 45 atg ctg gac tgg aga ttg gca agt gca cat ttc atc ctg gct gtg aca 48
 46 Met Leu Asp Trp Arg Leu Ala Ser Ala His Phe Ile Leu Ala Val Thr
 47 -25 -20 -15
 49 ctg aca ctg tgg agc tca gga aaa gtc ctc tca gta gat gta aca aca 96
 50 Leu Thr Leu Trp Ser Ser Gly Lys Val Leu Ser Val Asp Val Thr Thr
 51 -10 -5 -1 1
 53 aca gag gcc ttt gat tct gga gtc ata gat gtg cag tca aca ccc aca 144
 54 Thr Glu Ala Phe Asp Ser Gly Val Ile Asp Val Gln Ser Thr Pro Thr
 55 5 10 15
 57 gtc agg gaa gag aaa tca gcc act gac ctg aca gca aaa ctc ttg ctt 192
 58 Val Arg Glu Glu Lys Ser Ala Thr Asp Leu Thr Ala Lys Leu Leu Leu
 59 20 25 30 35
 61 ctt gat gaa ttg gtg tcc cta gaa aat gat gtg att gag aca aag aag 240

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62 Leu Asp Glu Leu Val Ser Leu Glu Asn Asp Val Ile Glu Thr Lys Lys
 63 40 45 50
 65 aaa agg agt ttc tct ggt ttt ggg tct ccc ctt gac aga ctc tca gct 288
 66 Lys Arg Ser Phe Ser Gly Phe Gly Ser Pro Leu Asp Arg Leu Ser Ala
 67 55 60 65
 69 ggc tct gta gat cac aaa ggt aaa cag agg aaa gta gta gat cat cca 336
 70 Gly Ser Val Asp His Lys Gly Lys Gln Arg Lys Val Val Asp His Pro
 71 70 75 80
 73 aaa agg cga ttt ggt atc ccc atg gat cgg att ggt aga aac cgg ctt 384
 74 Lys Arg Arg Phe Gly Ile Pro Met Asp Arg Ile Gly Arg Asn Arg Leu
 75 85 90 95
 77 tca aat tcc aga ggc taa 402
 78 Ser Asn Ser Arg Gly
 79 100
 82 <210> SEQ ID NO: 2
 83 <211> LENGTH: 133
 84 <212> TYPE: PRT
 85 <213> ORGANISM: Homo sapiens
 87 <400> SEQUENCE: 2
 89 Met Leu Asp Trp Arg Leu Ala Ser Ala His Phe Ile Leu Ala Val Thr
 90 -25 -20 -15
 93 Leu Thr Leu Trp Ser Ser Gly Lys Val Leu Ser Val Asp Val Thr Thr
 94 -10 -5 -1 1
 97 Thr Glu Ala Phe Asp Ser Gly Val Ile Asp Val Gln Ser Thr Pro Thr
 98 5 10 15
 101 Val Arg Glu Glu Lys Ser Ala Thr Asp Leu Thr Ala Lys Leu Leu
 102 20 25 30 35
 105 Leu Asp Glu Leu Val Ser Leu Glu Asn Asp Val Ile Glu Thr Lys Lys
 106 40 45 50
 109 Lys Arg Ser Phe Ser Gly Phe Gly Ser Pro Leu Asp Arg Leu Ser Ala
 110 55 60 65
 113 Gly Ser Val Asp His Lys Gly Lys Gln Arg Lys Val Val Asp His Pro
 114 70 75 80
 117 Lys Arg Arg Phe Gly Ile Pro Met Asp Arg Ile Gly Arg Asn Arg Leu
 118 85 90 95
 121 Ser Asn Ser Arg Gly
 122 100
 125 <210> SEQ ID NO: 3
 126 <211> LENGTH: 393
 127 <212> TYPE: DNA
 128 <213> ORGANISM: Mus musculus
 131 <220> FEATURE:
 132 <221> NAME/KEY: CDS
 133 <222> LOCATION: (1)..(390)
 135 <220> FEATURE:
 136 <221> NAME/KEY: sig_peptide
 137 <222> LOCATION: (1)..(87)
 139 <220> FEATURE:
 140 <221> NAME/KEY: mat_peptide

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Input Set : A:\1431sequence_listing.txt
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141 <222> LOCATION: (88)..(390)
 143 <400> SEQUENCE: 3
 144 atg ctg gac tgg aga ttg gca agt aca cac ttc atc ctg gct atg att 48
 145 Met Leu Asp Trp Arg Leu Ala Ser Thr His Phe Ile Leu Ala Met Ile
 146 -25 -20 -15
 148 gtg atg ctg tgg ggc tca gga aag gca ttc tct gtg gac tta gca tca 96
 149 Val Met Leu Trp Gly Ser Gly Lys Ala Phe Ser Val Asp Leu Ala Ser
 150 -10 -5 -1 1
 152 cag gag ttt gga aca gca agc ttg cag tct cca ccc aca gcc aga gaa 144
 153 Gln Glu Phe Gly Thr Ala Ser Leu Gln Ser Pro Pro Thr Ala Arg Glu
 154 5 10 15
 156 gag aag tca gcc act gag ctt tcg gct aag ctc ctg cgt ctt gat gat 192
 157 Glu Lys Ser Ala Thr Glu Leu Ser Ala Lys Leu Leu Arg Leu Asp Asp
 158 20 25 30 35
 160 ctg gtg tcc tta gag aat gac gta ttt gag acc aag aaa aag aga agc 240
 161 Leu Val Ser Leu Glu Asn Asp Val Phe Glu Thr Lys Lys Lys Arg Ser
 162 40 45 50
 164 ttc tct ggc ttt ggg tct ccc ctt gac aga ctc tca gct ggg tct gta 288
 165 Phe Ser Gly Phe Gly Ser Pro Leu Asp Arg Leu Ser Ala Gly Ser Val
 166 55 60 65
 168 gag cat aga ggg aaa caa agg aaa gca gta gat cat tca aaa aag cgg 336
 169 Glu His Arg Gly Lys Gln Arg Lys Ala Val Asp His Ser Lys Lys Arg
 170 70 75 80
 172 ttt ggt att ccc atg gat cgg att ggt aga aac cgg ctc tcc agt tcc 384
 173 Phe Gly Ile Pro Met Asp Arg Ile Gly Arg Asn Arg Leu Ser Ser Ser
 174 85 90 95
 176 aga ggc tga 393
 177 Arg Gly
 178 100
 181 <210> SEQ ID NO: 4
 182 <211> LENGTH: 130
 183 <212> TYPE: PRT
 184 <213> ORGANISM: Mus musculus
 186 <400> SEQUENCE: 4
 188 Met Leu Asp Trp Arg Leu Ala Ser Thr His Phe Ile Leu Ala Met Ile
 189 -25 -20 -15
 192 Val Met Leu Trp Gly Ser Gly Lys Ala Phe Ser Val Asp Leu Ala Ser
 193 -10 -5 -1 1
 196 Gln Glu Phe Gly Thr Ala Ser Leu Gln Ser Pro Pro Thr Ala Arg Glu
 197 5 10 15
 200 Glu Lys Ser Ala Thr Glu Leu Ser Ala Lys Leu Leu Arg Leu Asp Asp
 201 20 25 30 35
 204 Leu Val Ser Leu Glu Asn Asp Val Phe Glu Thr Lys Lys Lys Arg Ser
 205 40 45 50
 208 Phe Ser Gly Phe Gly Ser Pro Leu Asp Arg Leu Ser Ala Gly Ser Val
 209 55 60 65
 212 Glu His Arg Gly Lys Gln Arg Lys Ala Val Asp His Ser Lys Lys Arg
 213 70 75 80
 216 Phe Gly Ile Pro Met Asp Arg Ile Gly Arg Asn Arg Leu Ser Ser Ser

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Input Set : A:\1431sequence_listing.txt
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217 85 90 95

220 Arg Gly

221 100

224 <210> SEQ ID NO: 5

225 <211> LENGTH: 19

226 <212> TYPE: DNA

227 <213> ORGANISM: Artificial Sequence

229 <220> FEATURE:

230 <223> OTHER INFORMATION: Oligonucleotide designed to act as primer for amplifying cDNA

231 derived from mouse soleus muscle.

233 <400> SEQUENCE: 5

234 ggggtggac catcctcta 19

237 <210> SEQ ID NO: 6

238 <211> LENGTH: 20

239 <212> TYPE: DNA

240 <213> ORGANISM: Artificial Sequence

242 <220> FEATURE:

243 <223> OTHER INFORMATION: Oligonucleotide designed to act as primer for amplifying cDNA

244 derived from mouse soleus muscle.

246 <400> SEQUENCE: 6

247 cgcgcagctg taaacggtag 20

250 <210> SEQ ID NO: 7

251 <211> LENGTH: 249

252 <212> TYPE: DNA

253 <213> ORGANISM: Mus musculus

255 <400> SEQUENCE: 7

256 aggactctaa agttaggagc tctgacttct cacaagatgc tggactggag attggcaagt 60

258 acacacttca tcctggctat gattgtatg ctgtggggct caggaaaggc attctctgtg 120

260 gacttagcat cacaggagtt tggAACAGCA agcttgcagt ctccaccac agccagagaa 180

262 gagaagtcag ccactgagct ttcggctaag ctcctgcgtc ttgatgatct ggtgtcccta 240

264 gagaatgac 249

267 <210> SEQ ID NO: 8

268 <211> LENGTH: 30

269 <212> TYPE: DNA

270 <213> ORGANISM: Artificial Sequence

272 <220> FEATURE:

273 <223> OTHER INFORMATION: Oligonucleotide designed to act as primer for amplifying full

274 length mouse musculin cDNA.

276 <400> SEQUENCE: 8

277 tcctgagccc cacagcatca caatcatagc 30

280 <210> SEQ ID NO: 9

281 <211> LENGTH: 19

282 <212> TYPE: DNA

283 <213> ORGANISM: Artificial Sequence

285 <220> FEATURE:

286 <223> OTHER INFORMATION: Oligonucleotide designed to act as primer for amplifying full

287 length mouse musculin cDNA.

289 <400> SEQUENCE: 9

290 ccttgacaga ctctcagct 19

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Input Set : A:\1431sequence_listing.txt
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full

347 length human musculin cDNA.

349 <400> SEQUENCE: 11

28

350 qactgtgggt gttgactgca catctatg

353 <210> SEQ ID NO: 12

354 <211> LENGTH: 28

355 <212> TYPE: DNA

355 <212> TITLE: BN

358 <220> FEATURE:
359 <223> OTHER INFORMATION: Oligonucleotide designed to act as primer for amplifying

fuuu

360 length human myosulin cDNA

360 Tengen Human
362 (1995) SEQUENCE: 13

20

362 <400> SEQUENCE: 12

363 ctgatctttc acgagatg
366 310: SEQ ID NO: 13

366 <210> SEQ ID NO:
367 211 LENGTH: 1

367 <211> LENGTH: 1655
368 318 TYPE: RNA

368 <212> TYPE: DN

369 <213> ORGANISM: *Homo sapiens*

372 <220> FEATURE:

373 <221> NAME/KEY: misc_feature

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/561,144

DATE: 12/30/2005
TIME: 09:39:20

Input Set : A:\1431sequence_listing.txt
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:13; N Pos. 763,965,1032,1033,1043,1075,1080,1113,1138,1235,1238,1265
Seq#:13; N Pos. 1277,1280,1291,1301,1328,1347,1366,1454,1553,1580,1625

VERIFICATION SUMMARY DATE: 12/30/2005
PATENT APPLICATION: US/10/561,144 TIME: 09:39:20

Input Set : A:\1431sequence_listing.txt
Output Set: N:\CRF4\12302005\J561144.raw

L:10 M:270 C: Current Application Number differs, Replaced Current Application No
L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:512 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:720
L:520 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:960
L:522 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:1020
L:524 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:1080
L:528 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:1200
L:530 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:1260
L:532 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:1320
L:536 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:1440
L:538 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:1500
L:540 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:1560
L:542 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:1620